

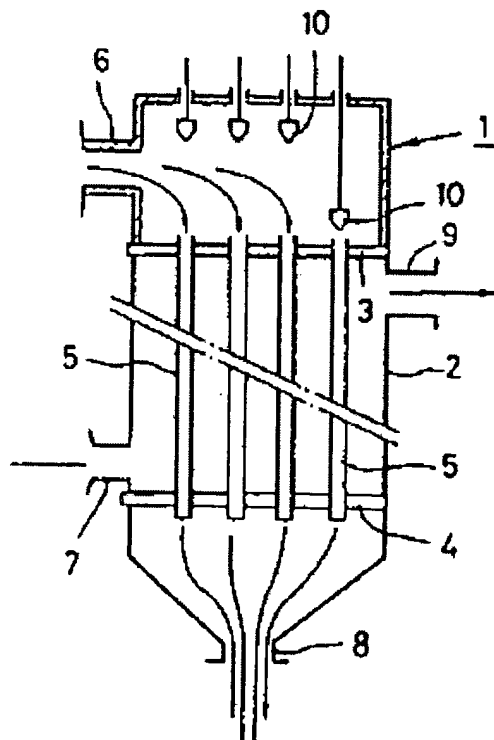
## HEAT EXCHANGER

**Patent number:** JP60089685  
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**Applicant:** UBE INDUSTRIES  
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 - international: F28D7/16  
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### Abstract of JP60089685

**PURPOSE:** To contrive to control the temperature in heat receiving gas so as not to always exceed the aimed temperature, and to be able to let the necessary quantity of heated gas pass through a heat exchanger body, by changing the heat transfer area by opening and closing the smoke tubes of a heat exchanger on the inlet side or the outlet side of heat receiving gas. **CONSTITUTION:** A plurality of smoke tubes 5 are provided between end plates 3 and 4 located in the upper and the lower parts of the casing 2 of a heat exchanger body 1. A heated gas inlet port 6 is provided to the upper side of a casing above the upper ends of smoke tubes 5, while an inlet port 7 for heat receiving gas is provided in a position a little higher than the lower end plate 4 in the neighborhood of the lower ends of smoke tubes 5. The heat receiving gas sucked from the open air is fed into the heat exchanger body 1 from the inlet port 7, and is lead to the outside from an outlet port 9 for the heat receiving gas, which is provided in a position a little lower than the end plate 3 in the vicinity of the upper end of a heat exchanger body 1. On the other hand, valves 10 are elevatably provided to the upper end of a heat exchanger body 1 one to one as a heat transfer area changing device, in the state that each valve is corresponding to each smoke tube 5.



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